

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)



Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code: BUILDING TECHNOLOGY(20CE0105) Course & Branch: B.Tech & Civil

Year & Sem: II & I Regulation: R20

UNIT –I FOUNDATIONS & MASONRY

1.	a) Define foundation? What are the essentials of a good foundation?	[L1] [CO1]	[6M]
	b) Write the objectives of foundations and list the types of foundation.	[L1] [CO1]	[6M]
2.	Describe briefly spread footing with neat sketch	[L1] [CO1]	[12M]
3.	Explain briefly combined footing and its suitability with neat sketch	[L2] [CO1]	[12M]
4.	Differentiate between combined footing and mat footing	[L4] [CO1]	[12M]
5.	What are the causes of failure of foundations? What measures are to be taken to prevent such failure?	[L1] [CO1]	[12M]
6.	What is masonry? Describe briefly different terms used in masonry	[L1] [CO2]	[12M]
7.	Classify the stone masonry. Explain briefly Random rubble and Ashlar fine masonry.	[L2] [CO2]	[12M]
8.	What are various bonds in brick work? Describe briefly English bond and Flemish bond with neat sketches.	[L1] [CO2]	[12M]
9.	a) What are the defects in brick masonry?	[L1] [CO2]	[6M]
	b) What are points to be observed while supervising the brick work?	[L1] [CO2]	[6M]
10.	Differentiate between brick masonry and stone masonry	[L4] [CO2]	[12M]

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UNIT-II FLOORS, LINTELS & ARCHES, PLASTERING AND POINTING

	1.	What is the purpose of flooring and what are the materials used for	[L1] [CO4]	[12M]
L		construction?		
	2.	Write short notes on Timber Flooring	[L1] [CO4]	[12M]
	3.	Write short notes on Composite Flooring	[L1] [CO4]	[12M]
	4.	Define Lintel and Classify various types of lintels and discuss?	[L1] [CO3]	[12M]
	5.	Draw a neat sketch of an arch and explain various technical terms used in its Construction.	[L2] [CO3]	[12M]
	6.	Write short notes on types of arches classified based on material?	[L1] [CO3]	[12M]
	7.	a) Define Plastering. What are the objectives or requirements of Plastering?	[L1] [CO2]	[6M]
		b) Write short notes on types of mortars for plastering?	[L1] [CO2]	[6M]
	8.	What are the methods of plastering? Explain?	[L2] [CO2]	[12M]
	9.	Explain briefly about the method of pointing and its types.	[L2] [CO2]	[12M]
	10.	Write short notes on various defects in plastering	[L1] [CO2]	[12M]



UNIT-III STAIRCASES, DOORS AND WINDOWS, ROOFS

1.	Wł	nat is stair case? What are the technical terms used in construction?	[L1] [CO3]	[12M]
2.	a)	State briefly the requirements of good stair case?	[L1] [CO3]	[6M]
	b)	Classify types of stairs and Explain	[L2] [CO3]	[6M]
		i) Quarter Turn Staircase		
		ii) Half turn staircase		
3.	a)	Explain briefly about Dog-legged stair case with neat sketch	[L2] [CO3]	[6M]
	b)	Plan a dog legged stair for a building in which the vertical distance between	[L3] [CO3]	[6M]
		the floors is 3.6m. The stair hall measures 2.5m x 5m.		
4.	a)	Write short notes on location of doors and windows.	[L1] [CO3]	[6M]
	b)	List out types of doors and explain briefly about Framed and Panelled door	[L2] [CO3]	[6M]
		with neat sketch.		
5.	Lis	t out types of windows and explain any four with neat sketches.	[L2] [CO3]	[12M]
6.	Ex	plain the following doors briefly with neat sketches	[L2] [CO3]	[12M]
		i) Glazed door		
		ii) Flush door		
7.		t out the types in Pitched roof and explain briefly about King post and Queen	[L2] [CO4]	[12M]
	Pos	st Trusses with neat sketches.		
8.	a)	State briefly essential requirements of a good roof.	[L2] [CO4]	[4M]
	b)	Explain, in brief with neat sketches	[L2] [CO4]	[8M]
		i) Madras Terrace roof		
		ii) Bengal Terrace roof		
9.	a)	Explain briefly about Curved roof with neat sketch.	[L2] [CO4]	[6M]
	b)	Write short notes on RCC roof with sketch?	[L1] [CO4]	[6M]
10.	Wł	nat are the types in Single roof, Explain briefly?	[L2] [CO4]	[12M]

UNIT-IV VENTILATION & AIR-CONDITIONING, FIRE PROTECTION, ACOUSTICS OF BUILDINGS

S.NO.	DESCRIPTION OF QUESTION	Bloom	MARKS
		Taxonomy	
1.	Explain why ventilation is required. Describe briefly the factors affecting	[L1][CO5]	[12M]
	Ventilation		
2.	a) What are the functional requirements of a good ventilating system?	[L1][CO5]	[06M]
	b) Describe briefly various types of filters for Air-conditioning	[L1][CO5]	[06M]
3.	Summarize the Natural and Mechanical ventilation with neat sketches	[L2][CO5]	[12M]
4.	Define Air-conditioning and state its purposes	[L1][CO5]	[12M]
5.	Identify the causes and explain their effects of fire protection	[L1][CO5]	[12M]
6.	Summarize the fire-resisting properties of common building materials	[L2][CO5]	[12M]
7.	Explain the usual provisions made in the rules for fire-resisting buildings.	[L1][CO5]	[12M]
8.	Summarize are the factors to be considered in the Acoustics of good	[L2][CO5]	[12M]
	building		
9.	Define Noise and list-out the effects of Noise	[L1][CO5]	[12M]
10.	a) Describe briefly various types of Noises	[L1][CO5]	[06M]
	b) What are factors depending up the acceptable noise levels and list-out	[L1][CO5]	[06M]
	the acceptable noise levels in various buildings		

UNIT-V MECHANICAL CONVEYORS AND SECURITY INSTALLATIONS

[L2] [CO6]	[12M]
	[1211]
ds [L1] [CO6]	[12M]
[L2] [CO6]	[6M]
[L2] [CO6]	[6M]
nd [L4] [CO6]	[12M]
and	
20	
be	
for	
[L3] [CO6]	[6M]
[L4] [CO6]	[6M]
ed	
[L3] [CO6]	[6M]
[L2] [CO6]	[6M]
y [L2] [CO6]	[12M]
[L2] [CO6]	[12M]
[L1] [CO6]	[12M]
[L1] [CO6]	[6M]
[L1] [CO6]	[6M]
1	[L2] [CO6] [L2] [CO6] Ind [L4] [CO6] Ind [L4] [CO6] Ind [L3] [CO6] Ind [L4] [CO6] Ind [L2] [CO6]

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